

ABSTRACT:

The present invention seeks to provide a carbonization apparatus for producing activated carbon capable of retrieving heat contained in spent exhaust gas discharged from a deodorizing furnace to reuse the exhaust heat, consequently to produce activated carbon of high quality at a low cost.

The carbonization apparatus 10 for producing activated carbon by subjecting an organic waste material to be treated comprises a carbonization furnace 40 for drying waste material to be treated with overheated steam and discharging spent steam which is no longer required, a drying furnace 30 for drying the waste material with the steam introduced from the carbonization furnace and discharging the spent steam, a high-temperature steam generator 60 for generating, from the steam introduced therein, the overheated steam to be fed to said carbonization furnace 40, a deodorizing furnace 70 for deodorizing impurities contained in the spent steam discharged from the drying furnace 30 by heating the steam and discharging the steam reaching a high temperature, and a waste heat boiler 80 for generating steam from water heated with the high-temperature steam discharged from the deodorizing furnace 70 and supplying the steam to the high-temperature steam generator 60.